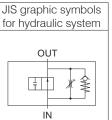
Internet

https://www.daikinpmc.com/en/ For latest information, PDF catalogs and operation manuals

Throttle Valve with Rotary Type Deceleration Valve (with Temperature Compensation Control)

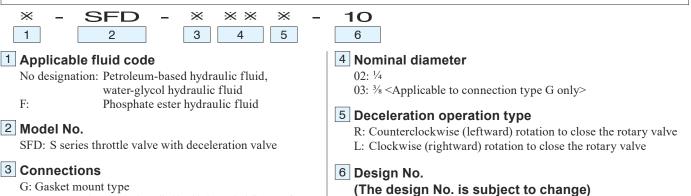




Features

- The temperature compensation control maintains the set flow rate regardless of changes in the fluid temperature.
- Available in a variety of configurations according to the moving direction of the table and piping direction.
- Capable of controlling the sequence: rapid forward \rightarrow slow forward \rightarrow rapid return.

Nomenclature



T: Screw connection type <Only applicable with the nominal diameter of "02">

Specifications

Model code	Nominal diameter	Maximum operating pressure MPa {kgf/cm²}	Free flow L/min	Flow rate adjustment range* ¹ L/min	Check valve Cracking pressure MPa {kgf/cm²}	Mass kg
SFD-*02*-10	1/4	E (EQ)	12	0.1 to 22	0.1.(1)	1.5
SFD-G03*-10	3⁄8	5 {50}	30	0.1 to 3.5	0.1 {1}	2.3

Note: *1 The flow rate adjustment range indicated are the values when the pressure difference between the inlet and outlet ports is 2 MPa {20 kgf/cm²}.

Accessories (gasket mount type)

Model No.	Hexagon socket head cap bolt	Quantity	Tightening torque N⋅m {kgf⋅cm}
SFD-G02	M5 imes 40	4	5.5 to 7.5 {55 to 75}
SFD-G03	M6 imes 50	4	10 to 12.5 {100 to 125}

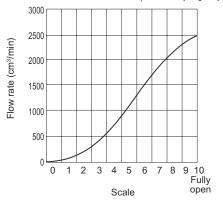
Handling

- Use the valve in combination with a line filter with a filtration accuracy of 10 µm or better.
- SFD-×02 is equipped with the check valve locking structure. Lock the check valve to throttle the flow in both directions: IN → OUT and OUT → IN. To lock the check valve, loosen the lock nut and fully screw in the spring support (part No. 4 in the sectional structural diagram), then retighten the lock nut.
- The spring support is normally set at a rotational position where it is loosened by one full turn from the fully tightened position.

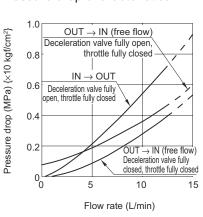
Performance curves (viscosity: 32 mm²/s {cSt})

• SFD-*02

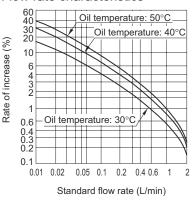
Scale - Flow rate characteristics Pressure difference between inlet and outlet ports: 2 MPa (20 kgf/cm²)



Pressure drop characteristics



Fluid temperature -Flow rate characteristics



Before using the product, please check the guide pages at the front of this catalog.

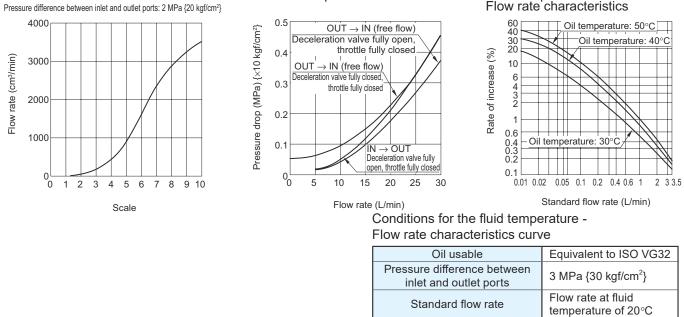
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Performance curves (viscosity: 32 mm²/s {cSt}) PDF Compressor Free Version

SFD-G03

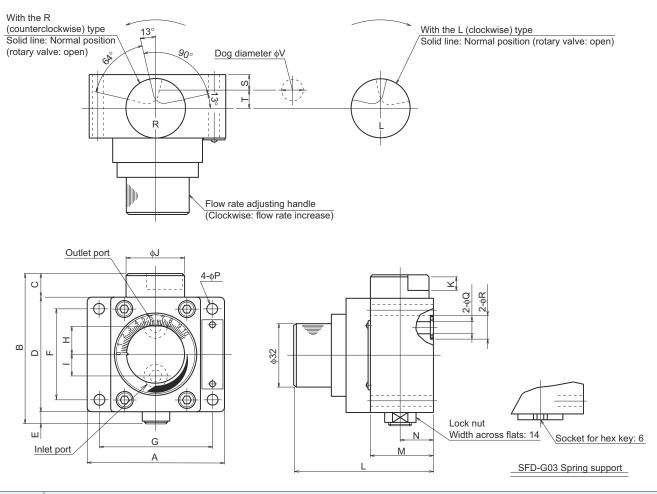
Scale - Flow rate characteristics Pressure difference between inlet and outlet ports: 2 MPa {20 kgf/cm²}

Pressure drop characteristics



External dimension diagram

SFD-G**

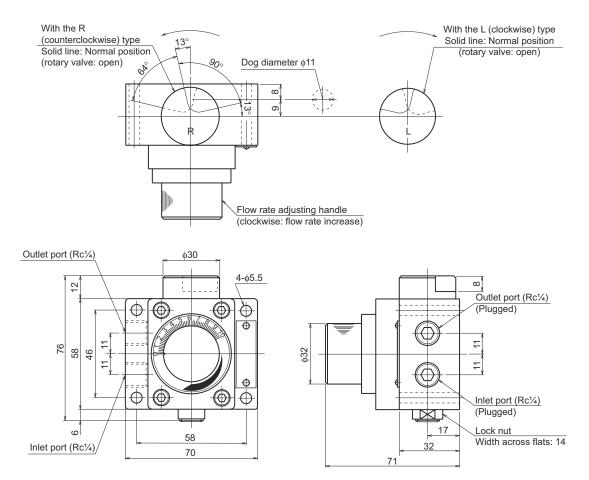


Model No.	Dimensions																			
woder No.	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	Р	Q	R	S	Т	V
SFD-G02	70	76	12	58	6	46	58	14	11	30	8	71	32	17	5.5	6	12	8	9	11
SFD-G03	80	84	13	68	3	55	66	14	14	35	8	81	42	22	6.6	8	16	12	10	12

Fluid temperature -

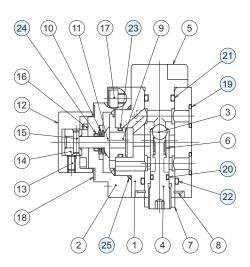
External dimension diagram PDF Compressor Free Version

SFD-T02



Sectional structural diagram

SFD-***



Sealing part table

Derthia	Name	Quantitu	Part specifications									
Part No.	Name	Quantity	SFD-G02	SFD-G03	SFD-T02							
19	O-ring	2	JIS B 2401 1A P9	JIS B 2401 1A P12	-							
20	O-ring	1	JIS B 2401 1A P7	JIS B 2401 1A P10	JIS B 2401 1A P7							
21	O-ring	1	1130-80 P12 (MITSUBISHI CABLE INDUSTRIES, LTD)	1130-80 P16 (MITSUBISHI CABLE INDUSTRIES, LTD)	1130-80 P12 (MITSUBISHI CABLE INDUSTRIES, LTD)							
22	O-ring	1	1130-80 P16 (MITSUBISHI CABLE INDUSTRIES, LTD)	1130-80 P20 (MITSUBISHI CABLE INDUSTRIES, LTD)	1130-80 P16 (MITSUBISHI CABLE INDUSTRIES, LTD)							
23	O-ring	1	AS568-014 (NBR,Hs70)	AS568-014 (NBR,Hs70)	AS568-014 (NBR,Hs70)							
24	O-ring	1	JIS B 2401 1A P6	JIS B 2401 1A P6	JIS B 2401 1A P6							
25	O-ring	1	AS568-028 (NBR,Hs70)	JIS B 2401 1A G40	AS568-028 (NBR,Hs70)							